AMENDMENTS TO THE CLAIMS

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This listing of claims will replace all prior versions and listings of claims in the application.

- 1. (Currently Amended) 1. A protein of the following (a) or (b) or a partial peptide thereof, or a salt thereof:
- (a) a protein having the amino acid sequence shown by SEQ ID NO:2, the amino acid sequence shown by SEQ ID NO:25, or an amino acid sequence substantially the same as these;
- (b) a protein having the amino acid sequence shown by SEQ ID NO:4, the amino acid sequence shown by SEQ ID NO:27, or an amino acid sequence substantially the same as these.
- 2. (Currently Amended) A protein of any of the following (a1) to (a4) and (b1) to (b4) or partial peptide thereof, or a salt thereof:
- (a1) a protein having an amino acid sequence having one or two or more amino acids deleted, substituted or added in the amino acid sequence shown by SEQ ID NO:2, which binds to a plasticizer when forming a complex with the amino acid sequence shown by SEQ ID NO:4 or SEQ ID NO:27;
- (a2) a protein having an amino acid sequence having one or two or more amino acids deleted, substituted or added in the amino acid sequence shown by SEQ ID NO:2, which binds to a plasticizer when forming a complex with a protein having an amino acid sequence having one or two or more amino acids deleted, substituted or added in the amino acid sequence shown by SEQ ID NO:4 or SEQ ID NO:27;
- (a3) a protein having an amino acid sequence having one or two or more amino acids deleted, substituted or added in the amino acid sequence shown by SEQ ID NO:25, which binds to a plasticizer when forming a complex with the amino acid sequence shown by SEQ ID NO:4 or SEQ ID NO:27;
- (a4) a protein having an amino acid sequence having one or two or more amino acids deleted, substituted or added in the amino acid sequence shown by SEQ ID NO:25, which binds to a plasticizer when forming a complex with a protein having an amino acid sequence having one or two or more amino acids deleted, substituted or added in the amino acid sequence shown by SEQ ID NO:4 or SEQ ID NO:27;
 - (b1) a protein having an amino acid sequence having one or two or more amino acids

deleted, substituted or added in the amino acid sequence shown by SEQ ID NO:4, which binds to a plasticizer when forming a complex with a protein having the amino acid sequence shown by SEQ ID NO:2 or SEQ ID NO:25;

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- (b2) a protein having an amino acid sequence having one or two or more amino acids deleted, substituted or added in the amino acid sequence shown by SEQ ID NO:4, which binds to a plasticizer when forming a complex with a protein having an amino acid sequence having one or two or more amino acids deleted, substituted or added in the amino acid sequence shown by SEQ ID NO:2 or SEQ ID NO:25:
- (b3) a protein having an amino acid sequence having one or two or more amino acids deleted, substituted or added in the amino acid sequence shown by SEQ ID NO:27, which binds to a plasticizer when forming a complex with a protein having the amino acid sequence shown by SEQ ID NO:2 or SEQ ID NO:25:
- (b4) a protein having an amino acid sequence having one or two or more amino acids deleted, substituted or added in the amino acid sequence shown by SEQ ID NO:27, which binds to a plasticizer when forming a complex with a protein having an amino acid sequence having one or two or more amino acids deleted, substituted or added in the amino acid sequence shown by SEQ ID NO:2 or SEQ ID NO:25.
- 3. (Currently Amended) A protein of the following (a) or (b) or a partial peptide thereof, or a salt thereof:
- (a) a protein having the amino acid sequence shown by SEQ ID NO:2 or an amino acid sequence substantially the same as these;
- (b) a protein having the amino acid sequence shown by SEQ ID NO:4 or an amino acid sequence substantially the same as these.
- 4. (Currently Amended) The protein of claim 2 or 3, wherein the plasticizer is a plasticizer represented by formula (1):

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COOR²
(1)

wherein R^1 represents o-phenylene, and R^2 and R^3 are the same or different and each represents H, a linear or branched alkyl having 1 to 20 carbon atoms, a benzyl that may be substituted, or a cyclohexyl that may be substituted.

- 5. (Currently Amended) A method of genetically recombining <u>a</u> the protein of any one of claims claim 1 to 4 and 6.
- 6. (Currently Amended) A protein obtained by the method of claim 5, or a salt thereof. A method of genetically recombining the protein of claim 2.
- 7. (Currently Amended) A partial peptide of a protein of any one of claims 1 to 4 and 6, or a salt thereof method of genetically recombining the protein of claim 3.
- 8. (Currently Amended) A polynucleotide encoding a-the protein of any one of claims claim 1 to 4 and 6.
- 9. (Currently Amended) A recombinant vector harboring the polynucleotide of claim 8 encoding the protein of claim 2.
- 10. (Currently Amended) A transformant transformed with the recombinant vector of claim 9 polynucleotide encoding the protein of claim 3.
- 11. (Cancelled)
- 12. (Original) A complex wherein the following (a) and (b) are linked:
- (a) a protein having the amino acid sequence shown by SEQ ID NO:2, the amino acid sequence shown by SEQ ID NO:25, or an amino acid sequence substantially the same as these;
 - (b) a protein having the amino acid sequence shown by SEQ ID NO:4, the amino acid

sequence shown by SEQ ID NO:27, or an amino acid sequence substantially the same as these.

- 13. (Original) A method of identifying a plasticizer that binds to the complex of claim 12, which comprises using the complex.
- 14. (Original) A method of measuring or quantifying a plasticizer, which comprises using the complex of claim 12.
- 15. (Original) A kit for measuring or quantifying a plasticizer, which comprises the complex of claim 12.
- 16. (Original) A method of concentrating a plasticizer, which comprises using the complex of claim 12.
- 17. (Original) A kit for concentrating a plasticizer, which comprises the complex of claim

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